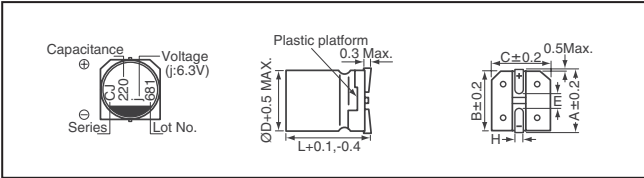


# nichicon CJ Series Aluminum Electrolytic Capacitors (SMT)



**FEATURES:** • Higher capacitance, low ESR • High ripple current • Load life of 2,000 hours @ 105°C • SMD type: Lead free flow soldering condition at 260°C peak correspondence • Adapted to the RoHS directive  
**Marking:** Navy blue print on the case top



| Size        | Dimensions — mm |      |      |      |      |     |           |
|-------------|-----------------|------|------|------|------|-----|-----------|
|             | øD              | L    | A    | B    | C    | E   | H         |
| 5.0 x 6.0   | 5.0             | 5.9  | 6.0  | 5.3  | 5.3  | 1.2 | 0.5 - 0.8 |
| 6.3 x 6.0   | 6.3             | 5.9  | 7.3  | 6.6  | 6.6  | 2.1 | 0.5 - 0.8 |
| 8.0 x 7.0   | 8.0             | 6.9  | 9.0  | 8.3  | 8.3  | 3.2 | 0.8 - 1.1 |
| 8.0 x 12.0  | 8.0             | 11.9 | 9.0  | 8.3  | 8.3  | 3.2 | 0.8 - 1.1 |
| 10.0 x 8.0  | 10.0            | 7.9  | 11.0 | 10.3 | 10.3 | 4.6 | 0.8 - 1.1 |
| 10.0 x 12.0 | 10.0            | 9.9  | 11.0 | 10.3 | 10.3 | 4.6 | 0.8 - 1.1 |
| 10.0 x 12.7 | 10.0            | 12.6 | 11.0 | 10.3 | 10.3 | 4.6 | 0.8 - 1.1 |

**SPECIFICATIONS:**

|                       |  |
|-----------------------|--|
| Temperature Range     | -55°C - 105°C  |
| Capacitance Tolerance | ±20% @ 120Hz, 20°C   |
| Leakage Current       | Not more than value of standard ratings.<br>After 2 minutes application of rated voltage 20°C. |

| Rated Voltage (VDC) | Cap. (µF) | tan δ (Maximum) @120Hz/20°C | Leakage Current (µA) | Rated Ripple Current @100KHz/105°C (mArms) | Size (mm)   | Digi-Key Part No. | Cut Tape Price Each |      |      | Digi-Key Part No. | Tape and Reel |         | Nichicon Part No. |
|---------------------|-----------|-----------------------------|----------------------|--|-------------|-------------------|---------------------|------|------|-------------------|---------------|---------|-------------------|
|                     |           |                             |                      |  |             |                   | 1                   | 10   | 100  |                   | Qty.          | Pricing |                   |
| 2.5                 | 180       | 0.12                        | 90                   | 2,670                                      | 5.0 x 6.0   | 493-3020-1-ND     | 1.94                | 1.59 | 1.28 | 493-3020-2-ND     | 1,000         | 581.28  | PCJ0E181MCL1GS    |
|                     | 390       | 0.12                        | 195                  | 3,400                                      | 6.3 x 6.0   | 493-3021-1-ND     | 1.99                | 1.63 | 1.31 | 493-3021-2-ND     | 1,000         | 594.74  | PCJ0E391MCL1GS    |
|                     | 560       | 0.12                        | 280                  | 4,100                                      | 8.0 x 7.0   | 493-3022-1-ND     | 2.46                | 2.02 | 1.62 | 493-3022-2-ND     | 1,000         | 736.14  | PCJ0E561MCL1GS    |
|                     | 820       | 0.12                        | 410                  | 5,400                                      | 8.0 x 12.0  | 493-3024-1-ND     | 2.70                | 2.22 | 1.79 | 493-3024-2-ND     | 400           | 432.70  | PCJ0E821MCL1GS    |
|                     | 1,500     | 0.12                        | 750                  | 5,400                                      | 8.0 x 12.0  | 493-3026-1-ND     | 2.70                | 2.22 | 1.79 | 493-3026-2-ND     | 400           | 432.70  | PCJ0E152MCL1GS    |
| 4                   | 330       | 0.12                        | 264                  | 3,300                                      | 6.3 x 6.0   | 493-3030-1-ND     | 1.99                | 1.63 | 1.31 | 493-3030-2-ND     | 1,000         | 594.74  | PCJ0G331MCL1GS    |
|                     | 560       | 0.12                        | 448                  | 4,000                                      | 8.0 x 7.0   | 493-3031-1-ND     | 2.46                | 2.02 | 1.62 | 493-3031-2-ND     | 1,000         | 736.14  | PCJ0G561MCL1GS    |
|                     | 560       | 0.12                        | 448                  | 5,200                                      | 8.0 x 12.0  | 493-3032-1-ND     | 2.46                | 2.02 | 1.62 | 493-3032-2-ND     | 400           | 392.31  | PCJ0G561MCL9GS    |
|                     | 1,000     | 0.12                        | 800                  | 4,300                                      | 10.0 x 8.0  | 493-3033-1-ND     | 2.70                | 2.22 | 1.79 | 493-3033-2-ND     | 500           | 459.52  | PCJ0G102MCL1GS    |
|                     | 1,200     | 0.12                        | 960                  | 5,400                                      | 8.0 x 12.0  | 493-3034-1-ND     | 2.70                | 2.22 | 1.79 | 493-3034-2-ND     | 400           | 432.70  | PCJ0G122MCL1GS    |
|                     | 1,500     | 0.12                        | 1,200                | 5,200                                      | 8.0 x 12.0  | 493-3035-1-ND     | 2.70                | 2.22 | 1.79 | 493-3035-2-ND     | 400           | 432.70  | PCJ0G152MCL4GS    |
|                     | 2,200     | 0.12                        | 1,760                | 5,700                                      | 10.0 x 10.0 | 493-3036-1-ND     | 2.70                | 2.22 | 1.79 | 493-3036-2-ND     | 500           | 459.52  | PCJ0G152MCL1GS    |
| 6.3                 | 100       | 0.12                        | 126                  | 2,500                                      | 5.0 x 6.0   | 493-3039-1-ND     | 1.94                | 1.59 | 1.28 | 493-3039-2-ND     | 1,000         | 581.28  | PCJ0J101MCL1GS    |
|                     | 120       | 0.12                        | 151                  | 2,500                                      | 5.0 x 6.0   | 493-3040-1-ND     | 1.94                | 1.59 | 1.28 | 493-3040-2-ND     | 1,000         | 581.28  | PCJ0J121MCL1GS    |
|                     | 220       | 0.12                        | 277                  | 3,200                                      | 6.3 x 6.0   | 493-3041-1-ND     | 1.99                | 1.63 | 1.31 | 493-3041-2-ND     | 1,000         | 594.74  | PCJ0J221MCL1GS    |
|                     | 390       | 0.12                        | 491                  | 3,950                                      | 8.0 x 7.0   | 493-3042-1-ND     | 2.46                | 2.02 | 1.62 | 493-3042-2-ND     | 1,000         | 736.14  | PCJ0J391MCL1GS    |
|                     | 820       | 0.12                        | 1,033                | 5,150                                      | 8.0 x 12.0  | 493-3043-1-ND     | 2.70                | 2.22 | 1.79 | 493-3043-2-ND     | 400           | 432.70  | PCJ0J821MCL4GS    |
|                     | 1,500     | 0.12                        | 1,890                | 5,025                                      | 10.0 x 8.0  | 493-3044-1-ND     | 2.70                | 2.22 | 1.79 | 493-3044-2-ND     | 500           | 459.52  | PCJ0J821MCL1GS    |
| 10                  | 68        | 0.12                        | 136                  | 2,310                                      | 5.0 x 6.0   | 493-3047-1-ND     | 1.94                | 1.59 | 1.28 | 493-3047-2-ND     | 1,000         | 581.28  | PCJ1A680MCL1GS    |
|                     | 120       | 0.12                        | 240                  | 2,530                                      | 6.3 x 6.0   | 493-3048-1-ND     | 1.99                | 1.63 | 1.31 | 493-3048-2-ND     | 1,000         | 594.74  | PCJ1A121MCL1GS    |
|                     | 270       | 0.12                        | 540                  | 3,220                                      | 8.0 x 7.0   | 493-3049-1-ND     | 2.46                | 2.02 | 1.62 | 493-3049-2-ND     | 1,000         | 736.14  | PCJ1A271MCL1GS    |
|                     | 470       | 0.12                        | 940                  | 3,800                                      | 10.0 x 8.0  | 493-3050-1-ND     | 2.70                | 2.22 | 1.79 | 493-3050-2-ND     | 500           | 459.52  | PCJ1A471MCL1GS    |
|                     | 680       | 0.12                        | 1,360                | 4,820                                      | 10.0 x 10.0 | 493-3051-1-ND     | 2.30                | 1.92 | 1.69 | 493-3051-2-ND     | 500           | 449.99  | PCJ1A681MCL1GS    |
|                     | 16        | 39                          | 0.12                 | 124  | 2,070       | 5.0 x 6.0         | 493-3052-1-ND       | 1.94 | 1.59 | 1.28              | 493-3052-2-ND | 1,000   | 581.28            |
| 68                  |           | 0.12                        | 217                  | 2,390                                      | 6.3 x 6.0   | 493-3053-1-ND     | 1.99                | 1.63 | 1.31 | 493-3053-2-ND     | 1,000         | 594.74  | PCJ1C680MCL1GS    |
| 120                 |           | 0.12                        | 384                  | 3,010                                      | 8.0 x 7.0   | 493-3054-1-ND     | 2.46                | 2.02 | 1.62 | 493-3054-2-ND     | 1,000         | 736.14  | PCJ1C121MCL1GS    |
| 220                 |           | 0.12                        | 704                  | 3,450                                      | 10.0 x 8.0  | 493-3055-1-ND     | 2.70                | 2.22 | 1.79 | 493-3055-2-ND     | 500           | 459.52  | PCJ1C221MCL1GS    |
| 330                 |           | 0.12                        | 1,056                | 4,350                                      | 10.0 x 10.0 | 493-3056-1-ND     | 2.30                | 1.92 | 1.69 | 493-3056-2-ND     | 500           | 449.99  | PCJ1C331MCL1GS    |

F

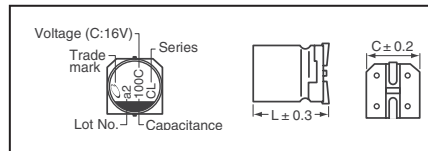
## NEW! CL Series Aluminum Electrolytic Capacitors (SMD)



**FEATURES:**  
 • Chip type, low impedance, temperature range up to +105°C • Applicable to automatic mounting machine fed with carrier tape  
 • **Marking:** Black print on the case top

**SPECIFICATIONS:**

|                       |  |
|-----------------------|--|
| Temperature Range     | -55°C - 105°C  |
| Capacitance Tolerance | ±20% @ 120Hz, 20°C   |
| Leakage Current       | After 2 minutes application of rated voltage, leakage current is not more than 0.01 CV or 3 (µA), whichever is greater |



| Size (mm)   | Dimensions — mm |      |
|-------------|-----------------|------|
|             | L               | C    |
| 4.0 x 5.8   | 5.8             | 4.3  |
| 5.0 x 5.8   | 5.8             | 5.3  |
| 6.3 x 5.8   | 5.8             | 6.6  |
| 6.3 x 7.7   | 7.7             | 6.6  |
| 8.0 x 6.2   | 6.2             | 8.3  |
| 8.0 x 10.0  | 10.0            | 8.3  |
| 10.0 x 7.7  | 7.7             | 10.3 |
| 10.0 x 10.0 | 10.0            | 10.3 |
| 10.0 x 13.5 | 13.5            | 10.3 |

| Rated Voltage (VDC) | Cap. (µF) | tan δ (Maximum) @120Hz/20°C | Rated Ripple Current @100KHz/105°C (mArms) | Size (mm)   | Digi-Key Part No. | Cut Tape Price Each |     |     | Digi-Key Part No. | Tape and Reel |          | Nichicon Part No. |
|---------------------|-----------|-----------------------------|--|-------------|-------------------|---------------------|-----|-----|-------------------|---------------|----------|-------------------|
|                     |           |                             |  |             |                   | 1                   | 10  | 100 |                   | Qty.          | Pricing  |                   |
| 6.3                 | 22        | 0.26                        | 160  | 4.0 x 5.8   | 493-3884-1-ND     | .57                 | .46 | .28 | 493-3884-2-ND     | 2,000         | 98.75/M  | UCL0J220MCL1GS    |
|                     | 47        | 0.26                        | 160  | 4.0 x 5.8   | 493-3885-1-ND     | .65                 | .52 | .31 | 493-3885-2-ND     | 2,000         | 111.10/M | UCL0J470MCL6GS    |
|                     | 47        | 0.26                        | 240  | 5.0 x 5.8   | 493-3886-1-ND     | .65                 | .52 | .31 | 493-3886-2-ND     | 1,000         | 117.83   | UCL0J470MCL1GS    |
|                     | 100       | 0.26                        | 240  | 5.0 x 5.8   | 493-3887-1-ND     | .76                 | .61 | .37 | 493-3887-2-ND     | 1,000         | 139.15   | UCL0J101MCL6GS    |
|                     | 100       | 0.26                        | 300  | 6.3 x 5.8   | 493-3888-1-ND     | .76                 | .61 | .37 | 493-3888-2-ND     | 1,000         | 139.15   | UCL0J101MCL1GS    |
|                     | 220       | 0.26                        | 300  | 6.3 x 5.8   | 493-3889-1-ND     | .76                 | .61 | .37 | 493-3889-2-ND     | 1,000         | 139.15   | UCL0J221MCL1GS    |
|                     | 330       | 0.26                        | 600  | 6.3 x 7.7   | 493-3890-1-ND     | .68                 | .58 | .36 | 493-3890-2-ND     | 900           | 138.36   | UCL0J331MCL1GS    |
|                     | 330       | 0.26                        | 500  | 8.0 x 6.2   | 493-3891-1-ND     | .68                 | .58 | .36 | 493-3891-2-ND     | 1,000         | 144.76   | UCL0J331MCL6GS    |
|                     | 470       | 0.26                        | 850  | 8.0 x 10.0  | 493-3892-1-ND     | 1.11                | .94 | .59 | 493-3892-2-ND     | 500           | 139.15   | UCL0J471MML1GS    |
|                     | 470       | 0.26                        | 850  | 10.0 x 7.7  | 493-3893-1-ND     | 1.11                | .94 | .59 | 493-3893-2-ND     | 500           | 139.15   | UCL0J471MCL6GS    |
|                     | 1000      | 0.26                        | 850  | 10.0 x 10.0 | 493-3894-1-ND     | 1.11                | .94 | .59 | 493-3894-2-ND     | 500           | 139.15   | UCL0J102MML1GS    |
|                     | 1500      | 0.26                        | 1190                                       | 10.0 x 10.0 | 493-3895-1-ND     | 1.09                | .93 | .63 | 493-3895-2-ND     | 500           | 165.52   | UCL0J152MML1GS    |
| 10                  | 1800      | 0.26                        | 850  | 10.0 x 10.0 | 493-3896-1-ND     | 1.09                | .93 | .63 | 493-3896-2-ND     | 500           | 165.52   | UCL0J182MML1GS    |
|                     | 2200      | 0.26                        | 1190                                       | 10.0 x 13.5 | 493-3897-1-ND     | 1.13                | .95 | .70 | 493-3897-2-ND     | 400           | 169.67   | UCL0J222MML1GS    |
|                     | 22        | 0.19                        | 160  | 4.0 x 5.8   | 493-3898-1-ND     | .57                 | .46 | .28 | 493-3898-2-ND     | 2,000         | 98.75/M  | UCL1A220MCL1GS    |
|                     | 33        | 0.19                        | 160  | 4.0 x 5.8   | 493-3899-1-ND     | .65                 | .52 | .31 | 493-3899-2-ND     | 2,000         | 111.10/M | UCL1A330MCL6GS    |
|                     | 33        | 0.19                        | 240  | 5.0 x 5.8   | 493-3900-1-ND     | .65                 | .52 | .31 | 493-3900-2-ND     | 1,000         | 117.83   | UCL1A330MCL1GS    |
|                     | 47        | 0.19                        | 300  | 6.3 x 5.8   | 493-3901-1-ND     | .76                 | .61 | .37 | 493-3901-2-ND     | 1,000         | 139.15   | UCL1A470MCL1GS    |
|                     | 150       | 0.19                        | 300  | 6.3 x 5.8   | 493-3902-1-ND     | .76                 | .61 | .37 | 493-3902-2-ND     | 1,000         | 139.15   | UCL1A151MCL1GS    |
|                     | 220       | 0.19                        | 600  | 6.3 x 7.7   | 493-3903-1-ND     | .68                 | .58 | .36 | 493-3903-2-ND     | 900           | 138.36   | UCL1A221MCL1GS    |
|                     | 220       | 0.19                        | 500  | 8.0 x 6.2   | 493-3904-1-ND     | .68                 | .58 | .36 | 493-3904-2-ND     | 1,000         | 144.76   | UCL1A221MCL6GS    |
|                     | 330       | 0.19                        | 850  | 8.0 x 10.0  | 493-3905-1-ND     | 1.11                | .94 | .59 | 493-3905-2-ND     | 500           | 139.15   | UCL1A331MML1GS    |
|                     | 330       | 0.19                        | 850  | 10.0 x 7.7  | 493-3906-1-ND     | 1.11                | .94 | .59 | 493-3906-2-ND     | 500           | 139.15   | UCL1A331MML6GS    |

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

Free shipping on orders over \$200 CAD! All prices in Canadian dollars and include duty and brokerage fees.

1-800-344-4539 • www.digikey.ca • 218-681-6674 • Fax: 218-681-3380

(CA2011) 1767